POUCHLY, J.

Behavior of macromolecules on phase boundary. Pt.1. Coll Cz Chem 28 no.7:1804-1813 Jl '63.

1. Institute of Macromolecular Chemistry, Czechoslovak Academy of Sciences, Prague.

POUCHLY, J.

3

✓ Kinetics of adsorption from solutions. II. Effect of polydispersion of the adsorbent. Julius Pouchlý (Vysoká škola chem.-technol., Prague). *Chem. listy* 52, 993–1000 (1958); cf. *ibid.* 874.—By means of the Laplace-Carson transformation, the differential equations are solved for the course of adsorption controlled by internal diffusion in the adsorbent, the particles of which differ in dimensions and in kinetically important phys. properties. The solution is given for the static arrangement and final no. of fractions, and is valid for 3 simple geometric forms of particles. If the dimensions and phys. properties of individual fractions are conveniently averaged, the course of the 1st phase of the process coincides approx. with the course in the monodisperse system, the consts. of which are equal to the av. values of the polydisperse system. In the 2nd phase a noticeable retardation is observed, in comparison with the monodisperse system, that is due to the preferential filling of the more accessible fractions. An approx. simple method is suggested for the calcns. in the 2nd phase of the process which replaces the complicated exact equations. B. Erdős

POUCHLY, J.

Kinetics of adsorption from solutions. II. Effect of polydispersion of the absorbent. In German. Coll.Cz.Chem. 24 no.9:3007-3018 S '59.

1. Institut fur physikalische Chemie, Technische Hochschule fur Chemie, Prag.
(Adsorption) (Solutions) (Dispersion)

POUCHLÝ J.

Kinetics of adsorption from solutions. I. Simultaneous external and internal diffusion. Julius Pouchlý and Emerich Erdos (Vysoká škola chem.-technol., Prague). *Chem. listy* 52, 874-80(1958).—By means of the Laplace-Carson transformation equations were derived for adsorption in porous solids if the rate is controlled simultaneously by the external and internal diffusion. The relations are applicable for 3 simple geometries (plane parallel plates, cylinders, spheres) in the ranges of low and medium values of the time. A graphical representation is suggested.

E. Erdős

[illegible]

P[illegible]. J.; ERDOS, E.; JAGER, L.

Specific [illegible] of [illegible] acid. [illegible]
(Chemicke Listy. Praha, Vol. 46, No. 12, Dec. 1952)
SO: Monthly List of East European Accessions, ([illegible]), LC, Vol. [illegible], No. [illegible],
June 19[illegible], Uncl.

CZECHOSLOVAKIA / Physical Chemistry. Surface Phenomena. Adsorption. Chromatography. Ion Exchange.

Abs Jour: Ref Zhur-Khimiya, No 7, 1959, 22709.

Author : Pouchly, Julius., Erdos, Emerich.
Inst : Not given.
Title : Kinetics of Adsorption from Solutions. I. Simultaneous Participation of Outward and Inward Diffusions.

Orig Pub: Chem. listy, 1958, 52, No 5, 874-886.

Abstract: The general equation of adsorption from solutions is derived taking into consideration the exterior and the interior diffusions. This equation can be used in 3 simple geometrical cases (flat parallel adsorbent, porous cylinder and pourous sphere) in the static and counterflow forms. A

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CZECHOSLOVAKIA / Physical Chemistry. Surface Phen- B-13
omena. Adsorption. Chromatography.
Ion Exchange.

Abs Jour: Ref Zhur-Khimiya, No 7, 1959, 22709.

Abstract: simple graphic representation of derived relations with a single parameter is given using coordinates, which are functions of the ratio of volumes of the adsorbent and the solution, geometric characteristics of the adsorbent, immeasurable [sic] concentration in the solution, and the square root of time. The values of approximate and accurate solutions are juxtaposed in a table. -- O. Knessl.

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B-13

COUNTRY : Czechoslovakia
CATEGORY : Physical Chemistry--Surface phenomena, Adsorption. Chromatography. Ion exchange.
ABS. JOUR. : RZKhim., No. 16 1959, No. 56571

AUTHOR : Pouchly, J. and Erdoes, E.
INST. : Not given
TITLE : The Kinetics of Adsorption from Solutions. I. The Simultaneous Participation of Internal and External Diffusion.
ORIG. PUB. : Collection Czechoslov Chem Commun, 23, No 9, 1706-1710 (1958)
ABSTRACT : See RZhKhim, No 7, 1959, 22709.

CARD: 1/1

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PHASE I BOOK EXPLOITATION CZECH/5380

Pouchlý, Julius, Engineer, Candidate of Chemical Sciences, and Ivan Vavruch, Docent, Doctor of Natural Sciences.

Fysikální chemie koloidních soustav (Physical Chemistry of Colloidal Systems) Praha, SNTL, 1960. 334 p. 2,200 copies printed.

Reviewers: Jiří Mýl, Docent, Engineer, Doctor, and Alexander Tkáč, Docent, Engineer, Doctor; Resp. Ed.: Marie Školová; Chief Ed.: Adolf Balada; Tech. Ed.: Ludvík Charvát.

PURPOSE: This textbook is intended for students specializing in chemical technology at higher institutions of learning; for scientific and technical workers in all branches of the chemical industry and in chemical research; for workers in biology, agriculture, forestry, pharmacy, and medicine; for teachers in special schools; and for those working in the natural sciences.

COVERAGE: The book, the first in the Czech language on colloidal chemistry, was authorized as a textbook for nigher institutions of

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print, while the material intended for deeper study is in smaller type. The microphotos in the book were made with a TTC instrument supplied by the Ministerstvo chemického průmyslu (Ministry of the Chemical Industry) for which the authors thank Professor Stanislav Veselý; the Debyegram of corundum was supplied by Engineer Jaroslav Bauer of the VSCHT (Higher School of Chemical Technology) in Prague. References accompany each chapter. A separate bibliography containing 30 references (15 English, 5 German, 5 Soviet, and 5 Czech) appears at the end of the book.

TABLE OF CONTENTS:

POUCHLY, J.

"Handbook on colloidal chemistry" edited by [dr.] Alfred Kuhn. Reviewed by J. Pouchly. Chem listy 57 no.2:176-178 F '63.

POUCHLY, J.

1

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The kinetics of adsorption from solutions. III. The effect of adsorbent particle shape. J. Pouchlý (Vysoká škola chemicko-technol., Prague). *Collection Czechoslov. Chem. Communs.* 25, 1397–1412(1960); cf. *CA* 54, 10206b.—Equations describing the course of adsorption in porous particles with a finite vol. of the external bulk phase are known so far only for the 3 simplest geometrical shapes. A method is now described how by the use of the Laplace-Carson transform the solution can be found for any particle shape, if the solution is known for the limiting case where the external phase has an infinite capacity. In this way equations are derived relating the course of adsorption in cylindrical and prismatic particles of arbitrary dimensions. On comparison of the results it was found that the major geometrical factor decisive for the rate of attainment of adsorption equil. is the ratio of the external surface of the particle to its vol. This result makes it possible to calc. approx. the course of adsorption in particles of arbitrary shape. E. Erdős

MULLER, Jindrich; RUZICKA, Josef; POUCIK, Josef

Experience in water consumption determination in tanneries.
Kozarstvi 13 no.8:251-253 Ag '63.

1. Centroprojekt, n.p., Gottwaldov.

POUCKOV, P. V.

"Hydrogenation du hexylene sous une haute pression d'hydrogene". Nikolaeva, A. F., Pouckov, P. V. (p. 277) "Hydrogenation de l'ethylbenzene sous une haute pression d'hydrogen". (p. 280)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1939, Volume 9, #3

POUCKOV, P. V.

"Hydrogenation du cyclohexene sous pression d'hydrogene". Nikolaeva, A. F.; Pouckov, P. V. (p. 2153)

SO: Journal of General Chemistry
(Zhurnal Obshchei Khimii) 1939, Volume 9, #23

POUCKOV, P. V.

"Hydrogenation du cyclohexane sous pression de l'hydrogene." Pouckov, P. V. et Nikolaeva, A. F. (p. 1158)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1938, Vol. 8, No. 12

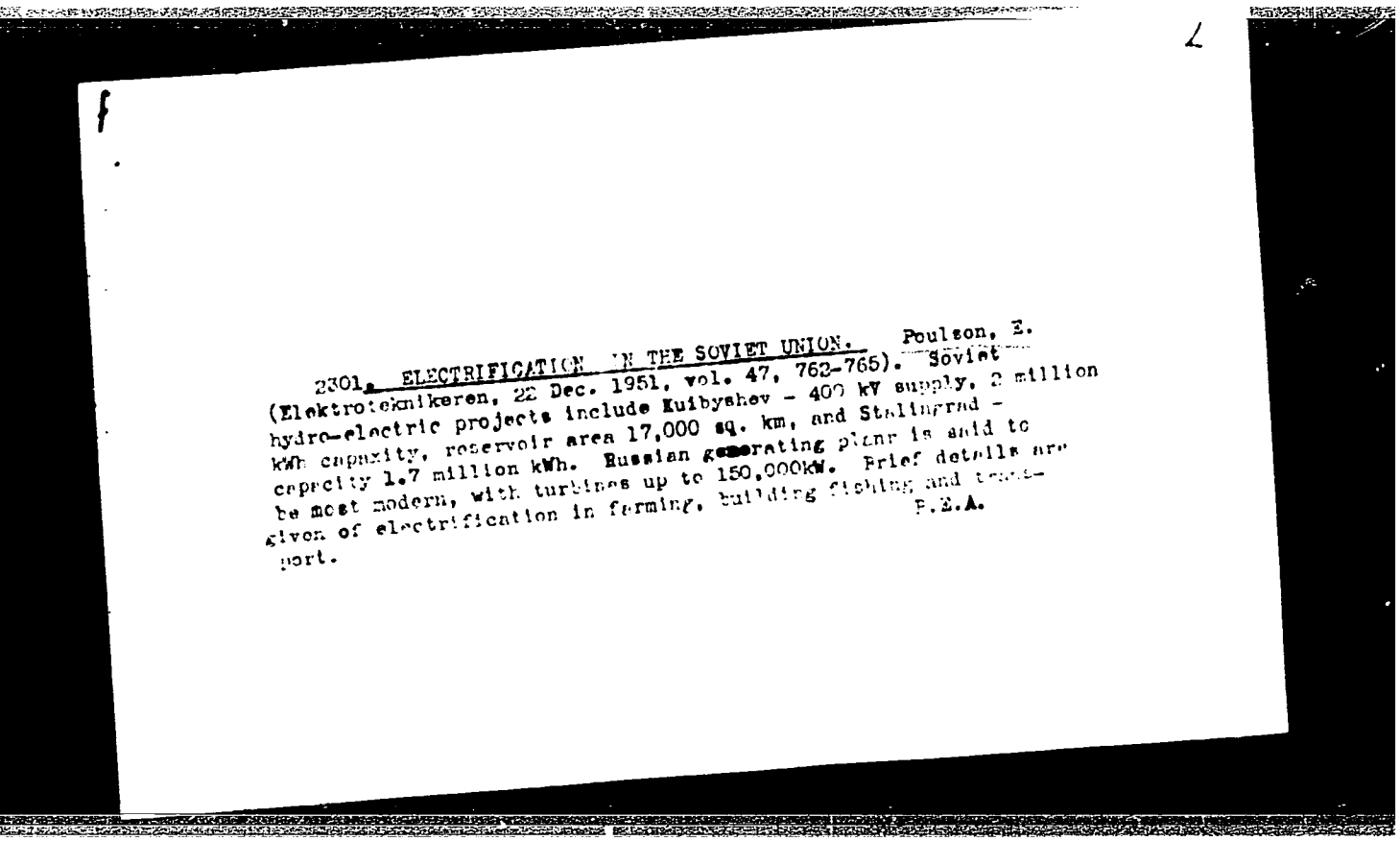
Liquid-vapor equilibria. I. Kinetics of circulation apparatus. Emerich Erdös and Julius Pouchlý. (Tech. Univ., Prague, Czech.) *Chem. Listy* 46, 321-6(1952).--Relations between the stationary state and phase equil. in a simple circulation app. for the detn. of liquid-vapor equil. of binary mixts. are discussed. Differential equations are derived for the velocity with which the equil. is attained. They are integrated with the assumption that they behave as ideal mixts. Relations are displayed for detg. errors of the exptl. results if equil. is not reached. The effect of the exptl. arrangement and of the nature of the mixt. on the time necessary for attaining the required accuracy is illustrated graphically.

M. Hudlický

POUKAR,F.

A simple vacuum extractor and experiences with its use. Cesk. gynek. 29 no.1:87-89 F'64.

1. Gyn.-por. odd. OUNZ v Chrudimi; vedouci: MUDr. J.Konyvka.



2301. ELECTRIFICATION IN THE SOVIET UNION. Poulson, E. (Elektroteknikeren, 22 Dec. 1951, vol. 47, 762-765). Soviet hydro-electric projects include Kuibyshev - 400 kV supply, 2 million kWh capacity, reservoir area 17,000 sq. km, and Stalingrad - capacity 1.7 million kWh. Russian generating plant is said to be most modern, with turbines up to 150,000kW. Brief details are given of electrification in farming, building fishing and trans-port. P.E.A.

POULIK, Josef

The 6th International Congress of Prehistoric and Protohistoric Sciences in Rome. Vestnik CSAV 71 no.5:609-611 '62.

KROFTA,K.; PROCHAZKA,J.; POUPA,A.

The effect of the duration of anoxia, the frequency of stimulation and temperature on the contractility of the rat myocardium injured by anoxia. Physiol. Bohemoslov. 14 no.3:238-240 '65.

1. Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

POUPA, J.; LANDRGOT, B.

Traumatic luxation of the hip joint. (Late results). Acta. chir. orthop. traum. cech. 31 no.1:61-67 F '64.

1. Ortopedicka klinika lekarske fakulty Karlovy University v Plzni (prednosta doc. dr. D. Polivka).

EXCERPTA MEDICA Sec 9 Vol 13/11 Surgery Nov 59

6282. (1335) HEADING OF FRACTURES OF THE DIAPHYSIS OF THE TIBIA IN ADULTS - Hojení diafysárních zlomenin bérce u dospělých - Poupa J. Ortop. Klin. KÚNZ, Plzeň - ACTA CHIR.ORTHOP.TRAUM.ČECH. 1959, 26/1 (70-74) Graphs 12

Based on an analysis of his own extensive material, the author analyses the factors which influence the healing of diaphysary fractures of the tibia in adults. Based on a statistical evaluation of the material, the influence of age, anatomical localization of the fracture and surgical intervention is discussed. The author stresses in particular the important influence of the extent of damage to soft parts, illustrating his theme with diagrams, and from these findings draws conclusions on the therapy of these fractures.

(IX, 19*)

POUPA, Jaroslav, MUDr.

Treatment of pseudoarthroses with Kuntscher's pins. Acta chir. orthop. traum. cech. 22 no.3:110-114 May 55.

1. Z orthopedicko-traumatologickeho oddeleni KUNZ. Prednosta doc. MUDr. Dusan Polivka.
(PSEUDARTHROSIS, surgery
Kuntscher's method.)

POUPA, Jaroslav, MUDr.

Experiences with intramedullary nailing as the method of choice in fractures of the femur. Acta chir. orthop. traum. cech. 23 no.3:149-152 June 56.

1. Z orthopedicko-traumatologickeho oddeleni KUNZ Plzen, prednosta doc. Dr. Dusan Polivka.
(FEMUR, fract.
surg., intramedullary nailing, indic. (Cz))
(FRACTURES
femur, surg., intramedullary nailing, indic. (Cz))

POUPA, Jaroslav. (KUNZ, Plzen)

Healing of diaphyseal fractures of the tibia in adults. Acta chir. orthop. traum. cech. 26 no.1:7-74 Feb 59.

1. Ortopedicka klinika KUNZ Plzen, prednosta doc. dr. Dusan Polivka.
(TIBIA, fract.
diaphyseal, healing (Cz))

POUPA, Jaroslav (Plzen, Marxova 13.)

Experience with graft repair of hand tendons. Acta chir. orthop. traum. cech. 26 no.1:56-61 Feb 59.

1. Ortopedicka klinika KUNZ Plzen, prednosta doc. dr. Dusan Polivka.
(HAND, wds. & inj.
tendon inj., grafting (Cz))
(TENDONS, transpl.
in hand inj. (Cz))

POUPA, Jaroslav, MUDr.

Luxatio claviculae subcoracoidea, sen axillaris. Acta chir. orthop. traum. cech. 24 no.1:64-65 Jan 57.

1. Orthopedicka klinika KUNZ Plzen, prednosta doc. Dr. C. Polivka.
(CLAVICLE, disloc.
subcoracoid, case report (Cz))

POUPA, Jaroslav, MUDr.

Open finger fractures. Acta chir. orthop. traum. cech. 23 no.2:82-86 Feb 56.

1. Z Orthopedickotraumatologickeho Oddeleni KUNZ v Plzni, prednosta doc. Dr. Dusan Polivka.

(FINGERS, fract.
open, surg. indic. (Cz))
(FRACTURES,
fingers, open, surg. indic. (Cz))

POUPA, Jaroslav, MUDr.

Unusual injury of the elbow joint. Acta chir. orthop. traum. cech. 22 no.6:227-229 Nov 55.

1. Z Orthopedicko-traumatologickeho oddeleni KUNZ Plzen Prednosta doc. MUDr. Dusan Polivka.

(ELBOW, wounds and injuries, unusual case.)
(WOUNDS AND INJURIES, elbow, unusual case.)

POUPA, Jaroslav, MUDr

Traumatic obturator dislocation of the hip joint. Acta chir orthop Cz 21 no.1:24-27 F '54. (EEAL 3:8)

1. Z orthopedicko-traumatologickeho oddeleni KUNZ Plzen. Prednosta Doc. Dr Polivka.

(HIP, dislocations,
*obturator disloc.)
(DISLOCATIONS,
*hip, obturator disloc.)

POUPA, J.

Functional results after the surgical treatment of fractures in the area of the elbow joint. Acta chir. orthop. traum. cech. 30 no.3:230-233 Je '63.

1. Oddeleni pro ortopedii a traumatologii fakultni nemocnice v Plzni, vedouci doc. dr. D. Polivka.
(FRACTURE FIXATION) (ELBOW) (ARM INJURIES)
(SURGERY, OPERATIVE) (RADIOGRAPHY)
(STATISTICS)

EXCERPTA MEDICA Sec.9 Vol.11/6 Surgery June 57

Poupa, J.

2766.(533) POUPA J. Orthop. Traumatol. Odd. KUNZ. Plzeň. Otevřené zlomeniny prstů ruky. Open fractures of the fingers ACTA CHIR. ORTHOP. TRAUM.ČECH. 1956, 23/2 (82-86) Tables 5

An analysis is made of 318 cases of such lesions, 64% of them in miners or other labourers. In most of the cases there were multiple lesions, the third phalanx being involved in half the cases. The condition of the traumatized soft parts decides whether reconstruction or amputation is to be done. For reconstructive procedures, it is necessary first to treat the wounds of the soft parts, where necessary by transplantation of skin. Before the operation, a Visnevsky block is induced. No primary osteosynthesis or extension were performed, but only fixation

POUPA, J., MUDr

Prolonged follow-up in surgery of cholelithiasis. Cas.lek.cesk. 91 no.38:1094-1099 19 Sept 52.

1. Z chirurgicke kliniky v Plzni.
(CHOLELITHIASIS, surgery, postop. follow-up)

PANKOVA, K.; MARESOVA, Z.; TOUPA, J.

Problems with accident prevention in children. Rozhl. chir. 44 no.10:678-680 O '65.

1. Ortopedicka klinika lekarske fakulty Karlovy University v Plzni (prednosta doc. dr. D. Polivka).

RAKUSAN, K.; SVDL, J.; POUPA, O.

The distribution and content of myoglobin in the heart of the rat during postnatal development. Physiol. Bohemoslov. 14 no.4: 317-319 '65.

1. Institute of Pathological Physiology and Institute of Child Development, Paediatric Faculty, Charles University and Institute of Physiology, Czechoslovak Academy of Sciences, Prague. Submitted October 27, 1964.

RAKUSAN, K.; POUPA, O.

The relationship between the capillaries and protein nitrogen in the myocardium of the rat during postnatal development. Physiol. Bohemoslov. 14 no.4:320-323 '65.

1. Institute of Pathological Physiology, Paediatric Faculty, Charles University and Institute of Physiology, Czechoslovak Academy of Sciences, Prague. Submitted November 13, 1964.

BARBASHOVA, Z.I.; KROFTA, K.; PROCHAZKA, J.; RAKUSAN, K.; SKRIVANOVA, J.; POUPA, O.

The effect of adrenalectomy on adaptation to hypoxia in the rat. Changes in haemoglobin concentration and osmotic resistance of erythrocytes in peripheral blood. Physiol. Bohemoslov. 14 no.4: 324-327 '65.

1. Institute of Evolutionary Physiology and Biochemistry, Academy of Sciences, Leningrad and Institute of Physiology, Czechoslovak Academy of Sciences, Prague. Submitted December 16, 1964.

WACHTLOVA, M.; RAKUSAN, K.; POUPA, O.

The coronary terminal vascular bed in the heart of the hare (Lepus europeus) and the rabbit (Oryctolagus domesticus). Physiol. Bohemoslov. 14 no.4:328-331 '65.

1. Institute of Pathological Physiology, Faculty of Paediatrics, Charles University and Institute of Physiology, Czechoslovak Academy of Sciences, Prague. Submitted December 28, 19[illegible].

RAKUSAN, K.; POUPA, O.

Changes in the diffusion distance in the rat heart muscle during development. Physiol. bohemoslov. 12 no.3:220-227 '63.

1. Department of Pathological Physiology, Faculty of Paediatrics, Charles University and Institute of Physiology, Czechoslovak Academy of Sciences, Prague.
(MYOCARDIUM) (CAPILLARIES)

POUPA, OTAKAR and VACLAV JELINEK. Laboratory of General Physiology of the Institute of Physiology of the Medical Faculty, Charles University, Prague. O biologickem ucinku nukleinovych kyselin On the biological effects of the nucleinic acids
Biologicke Listy 1947, 28/1 (40-45) Graphs 4

Depression of the blood-pressure in rabbits by yeast-nucleinic acid has been observed. The action of nucleinic acid prepared from the smaller reproductive yeast is less pronounced than the depressive action of the nucleinic acid from flowered yeasts. The nitrogen content was significantly higher in the nucleinic acid prepared from the latter. Yeast-nucleinic acid accelerates the growth of the tadpoles, but it does not affect their metamorphosis. Ulehla - Brno

SO: Physiology, Biochemistry and Pharmacology, Section II, Vol. I, #1-6

HAHN, P.; POUPA, O.

Effect of antihistamine substances on the activity of thyroxin.
Biol.listy Suppl.1:70-72 1950. (CIML 20:5)

1. Of the Department of General Physiology (Head--Prof.F.Karasek, M.D.) of the Institute of Physiology (Head--Prof.V.Laufberger, M.D.) of the Medical Faculty of Charles University, Prague.

POUPA, O; JELINEK, V.

Experimental studies of shock; hemodynamics in burns. Cas. lek. cesk. 89 no. 35-36:985-988 1 Sept. 1950 (CLML 20:1)

1. Of the Department of General Physiology (Head--Prof. F. Karasek, M. D.) of the Institute of Physiology (Head--Prof. V. Laufberger, M. D.) of the Medical Faculty of Charles University in Prague, and of the Institute of Research and Controls SPOFA in Prague.

POUPA, O.

High protein diets; physiological aspects. Sborn pathofysiol. trav. vys. 5 no.6:266-273 1951. (CIML 23:2)

POUPA, OTAKAR

Effect of procaine on the circulatory system. Otakar Poupa and Václav Pražák (Charles Univ., Prague). Biol. Listy 31, 210-14(1951).—Procaine (1 γ intracardially) suppressed only slightly the action of adrenaline and of acetylcholine on frog arteries, increased markedly the effect of adrenaline and suppressed considerably the action of acetylcholine on frog veins. It suppressed completely secondary vasodilation following adrenaline administration.

Oldrich Sebek

GUTMANN, E.; POUPA, O.; RYCHLIK, I.; VRBOVA, G.

Osmotic cerebral edema. Biol. listy, Praha 32 no.3:159-174 Dec 51.
(CLML 21:5)

1. Of the Central Institute of Biology (Head—Prof. I. Malek, M.D.) and of the Institute of General Physiology (Head--Prof. F. Karasek, M.D.). Experimental work has been done at Institute of Brain Research (Head—Prof. H. Haskovec, M.D.).

POUPA, O.

Progress and development of physiology of nutrition. Sborn. pathofysiol. trav. vyz. 7 no.1-4:7-18 June 1953. (CIML 25:1)

1. Of the Research Institute of Nutrition (Director--Docent J. Masek, M.D.), Prague.

HUBAC, M.;POUPA, O.;ZELENY, A.

Closing remarks on nutrition of workers exposed to heat. Sborn. pathofysiol. trav. vyz. 7 no.1-4:75-79 June 1953. (CLML 25:1)

1. Of the Research Institute of Nutrition (Director--Docent J. Masek, M. D.), Prague and of the Institute of Physiology of Charles University Branch in Pilsen and of the Regional Institute of Labor Hygiene and of Occupational Diseases, Bratislava.

POUPA, O.

FALTA, S.; CHYTIL, F.; POUPA, O.

Relation of high fat diet to water metabolism in hot environment. Sborn. pathofysiol. trav. vyz. 7 no.5-6:268-277 Nov. 1953. (CIML 25:5)

1. Of the Institute of Research on Nutrition (Head --Docent J. Masek, M.D.), Department of Physiology, Prague.

C. POUDA

"Secondary nutritional deficiencies." p. 52. (VYZIVA LIDU, Vol. 8, no. 4, Apr. 1953, Praha, Czechoslovakia.)

SO: Monthly List of East European Accessions, L.C., Vol. 2 No. 7, July 1953, Uncl.

POUPA, O.

"Nutrition Center." p. 170. VYZIVA LIDU, Vol. 8, no. 11, Nov. 1953, Praha, Czechoslovakia)

So: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954, Unclassified

POUPA, O.;HRUZA, Z.;HOLECKOVA, M.

"Factors Affecting the Resistance of the Gastric Mucosae to Hunger Erosions." p. 147,
(CESKOSLOVENSKA FYSIOLOGIE, Vol. 3, No. 2, May 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4
No. 5, May 1955, Uncl.

POUPA, O.;PARIZEK, J.

"Effect of Denervation on the Growth of Kidneys After High Protein Intake." p. 143, (CESKOSLOVENSKA FYSIOLOGIE, Vol. 3, No. 2, May 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4 No. 5, May 1955, Uncl.

POUPA, O.

Influence of denervation on the growth of kidneys after a high-protein intake in the food. J. Pařízek and O. Poupa (Research Inst. Human Nutrition, Prague). *Physiol. Bohemoslov.* 3, 148–52(1954)(in English).—The expts. were performed on male and female rats of approx. 180 g. wt. The contents of the diets used in the expts. are given in detail. The rats were killed and their kidneys weighed at the end of the expt. It was found that a large intake of protein leads to an increase in the parenchyma of the kidneys. The renotropic influence of proteins in the diet is intensified in male rats by a complete denervation of the kidneys. This finding can not be shown when the kidneys are weighed at a time when it can be assumed that a regeneration of the nerve network has taken place. The influence of denervation was not demonstrated in female rats.
J. M. Widom

2

HOLECKOVA, E.; HRUZA, Z.; POUPA, O.

Effect of certain factors on resistance of the gastric mucosa and its relation to erosions consecutive to hunger. Chekh. fiziol. 3 no.2:153-160 1954.

1. Institut issledovaniya narodnogo pitaniya, fiziologicheskoye otdeleniye, Praha.

(STOMACH, physiology,
eff. of hunger on gastric mucose in animals, variations in resist. to hunger-induced erosions)
(MUCUOUS MEMBRANES,
stomach, eff. of hunger in animals, variations in resist. to hunger-induced erosions)
(HUNGER, effects,
on stomach mucosa in animals, resist. to hunger-induced erosions)

FALTOVA, E.; POUPA, O.; SERVIT, Z.

Effect of glycogen/protein ration in diets on susceptibility to convulsions in mice. Cesk. fysiol. 4 no.1:10-13 28 Feb 55.

1. Ustav pro vyzkum vyzivy lidu. Fysiologicky ustav Cs. akademie ved, Praha.

(GLYCOGEN, effects,
on susceptibility to convulsions, dietary glycogen/protein ratio in mice)
(PROTEINS, effects,
on susceptibility to convulsions, dietary glycogen/protein ratio in mice)
(CONVULSIONS, experimental,
eff. of dietary glycogen/protein ration on susceptibility in mice)

POUPA, O.

Effect of carbohydrate-protein ratio in food on spasm susceptibility in mice. B. Faltova, O. Poupa, and Z. Servit (Nutrition Inst., Prague). *Physiol. Bohemoslov.* 4, 37–41 (1955).—In male rats supplied with isocaloric diets with different carbohydrate-protein ratios the susceptibility to convulsions or spasms was different. Too low (5.5%) or too high (42.3%) content of proteins raised the susceptibility by 3-fold. Av. protein content (22.4%) gives min. susceptibility, and in some 70% of such cases the animals responded to sound stimulus by a characteristic block reaction (immobility).

G. M. Kosolapoff

2

FALTOVA, E., POUPA, O.; SERVIT, Z.

Effect of carbohydrate-protein ratio in diet on muscular susceptibility to convulsions. Chekh.fiziol. 4 no.1:37-41 1955.

1. Institut pitaniia, Fiziologicheskii institut CHSAN, Praga.
(CONVULSIONS, experimental,
eff. of carbohydrate-protein ratio on susceptibility)
(CARBOHYDRATES, effects,
on susceptibility to convulsions in mice, dietary carbohydrate-protein ratio)
(PROTEINS, effects,
on susceptibility to convulsions in mice, dietary carbohydrate-protein ratio)
(DIETS,
carbohydrate-protein ratio, eff. on susceptibility to convulsions)

HOLECKOVA, E.; POUPA, O.

Growth of explanted rat kidney undergoing hyperplasia in vivo.
Physiol. bohem. 5:17-21 Suppl. 1956.

1. Czechoslovak Academy of Sciences, Laboratory of the Physiology and Pathophysiology of Metabolism, Prague.
(KIDNEYS, physiol.
growth of explanted rat kidney undergoing hyperplasia in vivo)
(GROWTH
of explanted rat kidney undergoing hyperplasia in vivo)
(HYPERTROPHY AND PHYPERPLASIA
kidneys, in vivo, explanted from rats)

POUPA, O.; PARICHEK, Zh. [Parizek, J.]

Experimental study of trophic effects on uriniferous tubules. Usl. zhiz. i zdorov. 1 no.2:111-115 '56. (MIRA 11:2)

1. Laboratoriya normal'nogo i patologicheskogo obmena Chekhoslovatskoy akademii nauk, Prage II, ul. Sal'movskaya, 1.
(KIDNEYS) (NUTRITION)

POUPA, O.

HRUZA, Z.; POUPA, O.

Studies on the Adaptation of Metabolism V. A Method of Experimental Traumatization in the Noble-Collip Drum. Physiol. bohem. 6 no.2:179-187 1957.

1. Laboratory for the Physiology and Pathophysiology of Metabolism, Czechoslovak Academy of Sciences, Prague.

(METABOLISM
metab. adaptation to exper. trauma, Noble-Collip drum method)
(ADAPTATION
same)

POUPA, O.

Some endocrinological problems at the 20th Physiological Congress in Brussels, 1956. p.282.
(Ceskoslovenska Fysiologie, Vol. 6, No. 2, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

CZECHOSLOVAKIA/Human and Animal Physiology - Liver. T-8

Abs Jour : Ref Zhur - Biol., No 7, 1958, 31893

Author : Poupa, O., Kopecky, M., Chytil, F.

Inst : -

Title : Basic Experimental Premises for the Influence on Hypoxia of the Liver by Means of Intra-Intestinal Insufflation of Oxygen.

Orig Pub : Casop. lekaru ceskych, 1957, 96, No 40-41, 1278-1282.

Abstract : During insufflation into the digestive tract of air or O_2, the absorption of O_2 in the small and large intestine of rat is very gradual, reaching 0.44 ml of O_2 in minute. This quantity is sufficient for the normal supply of the liver, even during compression of the hepatic artery.

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POUPA, O.

✓ Effect of aeration of the small intestine on the oxyhemo-
globin content of portal blood. O. Poupa, M. Kopecky,
and F. Chytil (Czech. Acad. Sci., Prague). Nature 179,
1053-1(1957).—Adult male Wistar rats were anesthetized
(Thiopentone 0.2 ml./100 g. body wt.), and after laparot-
omy blood samples were taken from the portal vein by
glass micropipet. The wall of the gut was punctured and
10 ml. of gas insufflated. O_2 was detd. by modified micro-
van Slyke and hemoglobin by the spectroscopic method of
Heilmeier and Mutius. Insufflation with O_2 or air increased
the oxyhemoglobin content of the portal blood. The amt.
of O_2 washed out from the lumen of the intestine was about
twice as great with pure O_2 as with air insufflation. No N_2
was washed out in the exptl. period and the second and
transitory rise in O_2 of the portal blood after N_2 was re-
garded as due to opening of the arterio-venous channels
in the wall of the gut. Sixty min. after insufflation of O_2
there was a 200% increase in glycogen content of the liver as
compared with anesthetized laparotomized controls.

Frances L. Estes

POUPA, O.

"Physiology Days; an attempt at a new form of work by Czechoslovak physiologists." p. 177.

CESKOSLOVENSKA FYSIOLOGIE. Praha, Czechoslovakia, Vol. 7, no. 3, May 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 8, August, 1959. Uncl.

POUPA, O.; KOPECKY, M.; HRUZA, Z.

Blood circulation in the splanchnic region in animals adapted to wounds.
Cesk. fysiol. 7 no.3:216-217 May 58.

1. Laborator pro fysiologii a patofysiologii premeny latek CSAV, Praha.
(BLOOD CIRCULATION,
in animals adapted to wds. (Cz))
(WOUNDS AND INJURIES,
blood circ. in splanchnic region in animals adapted to
wds. (Cz))
(ADAPTATION,
name)

POUPA, O.;KORECKY, B.; KROFTA, K.; RAKUSAN, K.; PROCHAZKA, J.

The effect of anaemia during the early postnatal period on vascularisation of the myocardium and its resistance to anoxia. Physiol. Bohemoslov. 13 no.3:281-287 '64

1. Institute of Physiology, Czechoslovak Academy of Sciences and Institute of Pathological Physiology, Faculty of Paediatrics, Prague.

POUPA, O.

Conference on the prospects of basic research in hygiene.
Cas. lek. cesk. 103 no.18:501 3 My'64

1. Fyziologicky ustav CSAV [Ceskoslovenske akademie ved]
(prednosta: prof. dr. O.Poupa, clen korespondent.)

HOLECKOVA, E.; POUPA, O.; FABRY, P.

Preservation of liver and muscle tissues explanted from rats adapted to intermittent cold. Cesk. fysiol. 7 no.3:217-218 May 58.

1. Laborator pro fysiologii a patofysiologii premeny latek CSAV, Ustav pro vyzkum vyzivy lidu, Praha.

(TRANSPLANTATION,
liver & musc. tissue preserv. from rats adapted to intermittent cold (Cz))
(LIVER, transpl.
tissue preserv. from rats adapted to intermittent cold (Cz))
(MUSCLES, transpl.
same)
(ADAPTATION,
liver & musc. tissue preserv. from rats adapted to cold(Cz))

POUPA, O.; NOVOTNY, J.

Fatty liver in lactation. Cesk. fysiol. 7 no.3:294-295 May 58.

1. Laborator pro fysiologii a patofysiologii premeny latek CSAV, Praha a Vyzkumny ustav stomatologicky, Praha.
(FATTY LIVER, exper.
in lactating animals (Cz))
(LACTATION,
relation to fatty liver in animals (Cz))

4186. INTESTINAL OXYGEN INSUFFLATION DURING STAGNANT ANOXIA OF THE SPLANCHNIC REGION - Poupa O., Kopecký M. and Hrůza Z. Lab. of Physiol. and Pathophysiol. of Metab., Czechoslovak Acad. of Scis, Prague - PHYSIOL. BOHEM. 1958, 7/6 (497-502) Graphs 3 Illus. 4

In the early stages of experimental traumatization of rats (Noble-Collip drum injury) a simultaneous decrease in the portal oxygen content and capillary engorgement in the intestine was found, together with resulting stagnant anoxia. Even under conditions of commencing stagnant anoxia, portal blood is still capable of being resaturated by oxygen insufflated into the lumen of the intestine. This procedure prevented the development of signs of post-traumatic enterocolitis in those segments of the intestine the mucosa of which was in direct contact with gaseous oxygen. These findings are discussed especially in relation to the pathogenesis of post-traumatic enterocolitis. Hahn - Prague

POUPA, O.; FALTOVA, E.

Growth on a diet with excess protein. Cesk. pediat. 13 no.4:313-315 5 May 58.

1. Laborator pro fysiologii a patofysiologii premeny latek CSAV v Praze.

(GROWTH, eff. of drugs on
depression by excessive dietary protein (Cz))
(PROTEINS, eff.
growth depression by excessive dietary protein (Cz))

POUPA, O.; KORECKY, B.

Enteral oxygen insufflation in anoxia in young animals. Cesk. fysiol. 8 no.3:237-238 Apr 59.

1. Laborator fysiologie a patofysiologie premeny latek CSAV a Oddeleni patologicke fysiologie detskeho lekarstvi, Praha. Predneseno na III. fysiologickych dnech v Brne dne 15. 1. 1959.

(ASPHYXIA NEONATORUM, exper.
enteral oxygen insufflation (Cz))
(OXYGEN, eff.
enteral insufflation in exper. asphyxia neonatorum (Cz))

KORECKY,B.; POUPA,O.

Use of intestinal oxygen insufflation as a resuscitation method in a phase of clinical death consecutive to severe hypoxia in young rats. Cesk.fysiol. 9 no.3:243 My '60.

1. Ustav patologicke fysiologie fak. detsk.lek. KU, Laborator fysiologie a patofysiologie premeny latek CSAV, Praha
(ANOXIA exper)
(RESUSCITATION)
(OXYGEN)

POUPA, O.

Homeostasis, development, and adaptation. Zhur. ob. biol. 22 no.1:3-8 Ja-F '61. (MIRA 14:1)

1. Academy of Sciences of Czechoslovakia, Prague.
(HOMEOSTASIS) (ADAPTATION (BIOLOGY))

POUPA, O.

Certain aspects of our physiology. Cesk.fysiol.10 no.2:113-117 Mr '61.

(PHYSIOLOGY)

KORECKY, Borivoj; POUPA, Otakar; technicka spoluprace MIKOVA, M.

Experimental basis for the use of enteric insufflation of oxygen as a resuscitation method in asphyxia neonatorum. Cas. lek. cesk. 101 no.21:660-663 '62.

1. Oddeleni patologicke fyziologie fakulty detskeho lekarstvi KU v Praze, prednosta prof. dr. O. Poupa Fyziologicky ustav CSAV, prednosta prof. dr. Z. Servit.
(ASPHYXIA NEONATORUM experimental)
(OXYGEN ther)

POUPA, Otakar

On physiological adaptation. Cas. lek. cesk. 101 no.24/25:776-781 22 Je '62.

1. Fyziologicky ustav CSAV, oddeleni premeny latek, prednosta prof. dr. O. Poupa, DrSc.

(ADAPTATION physiological)

POUPA, O.; PARMSAN, K.; GUPTA, K.; KOREOKY, L.; HRUCHAYKA, J.

On some developmental and adaptive changes in the mammalian heart.
Cesk. fysiol. 13 no.4:391-395 Jl '64.

1. Fysiologicky ustav Ceskoslovenske akademie ved, Ustav patholo-gicke fysiologie fak. detsk. lek. Karlovy University, Praha.

IOUPA, Otakar

Conference on the prospects of basic research in hygiene.
Vestnik CSAV 73 no.2:300-302 '64.

RAKUSAN, K.; JELINEK, J.; KORECKY,B.; SOUKUPOVA,M.; POUPA, O.

Postnatal development of muscle fibres and capillaries in the rat heart. Physiol. Bohemoslov. 14 no.1:32-37 '65

1. Institute of Pathological Physiology, Faculty of Paediatrics; Institute of Physiology, Czechoslovak Academy of Sciences and Institute of Biology, Faculty of General Medicine, Charles University, Prague.

POUPA, O.; KROFTA,K.; PROCHAZKA,J.; CHVAPIL, M.

The resistance of the myocardium to anoxia in animals acclimated to simulated altitude. Physiol. Bohemoslov. 14 no.3: 233-237 '65.

1. Institute of Physiology, Czechoslovak Academy of Sciences and Institute of Hygiene and Occupational Diseases, Prague.

KORECKY, B.; PAKUSAN, K.; POUPA, O.

The weight and chemical composition of the heart of rats suffering from sideropenic anaemia in the early postnatal period. Physiol. Bohemosl. 13 no.5:439-445 '64.

1. Institute of Pathological Physiology, Faculty of Paediatrics, Charles University and Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

KORECKY, B.; RAKUSAN, K.; POUPA,O.

The effect of anaemia due to iron deficience during early postnatal development of the rat on growth and body composition later in life. Physiol. Bohemoslov. 13 no.1:72-77 '64.

1. Institute of Pathological Physiology, Faculty of Paediatrics, Charles University and Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

RAKUSAN, K.; KORECKY, B.; ROTH, Z.; POUPA, O.

Development of the ventricular weight of the rat heart with special reference to the early phases of postnatal ontogenesis. Physiol. Bohemoslov. 12 no.6:518-525 '63.

1. Institute of Pathological Physiology, Faculty of Paediatrics, Charles University, Institute of Industrial Hygiene and Occupational Diseases, Department of Physiology and Pathophysiology of Metabolism, Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

(MYOCARDIUM) (GROWTH)

KORECKY, B.;POUPA, O.

Variations in metabolic findings following enteral insufflation of oxygen in younger or older than 14 days. Cesk. fysiol. 8 no.3: 416-417 S '59

1. Oddeleni patologicke fysiologie Fak. detsk. lek. KU, Laborator fysiologie a patofysiologie premeny latek CSAV, Praha.
(ANOXIA)
(OXYGEN *eff.*)

Poupa O

CZECHOSLOVAKIA/Human and Animal Physiology - Internal Secretion. V-7

Abs Jour : Ref Zhur - Biol., No 4, 1958, 18370

Author : O. Poupa and P. Fabry
Inst :
Title : Certain Endocrinological Problems Explored at the Twentieth Conference of Physiologists in Brussels in 1956.

Orig Pub : Ceskosl. fysiol, 1957, 6, No 2, 282-290

Abstract : No abstract.

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CZECHOSLOVAKIA

POUPA, O.; Physiology Institute of the Czechoslovak Academy of Sciences (Fysiologicky ustav CSAV,) Prague.

"Comments for Discussion at the Bratislava Meeting on Education."

Prague, Ceskoslovenska Fysiologie, Vol 12, No 4, July 1963; pp 295-296.

Abstract: Data from basic science exams on pediatric faculty, listing % of correct answers of an unstated number of students and stressing specific gaps in knowledge. No remedial comments or suggestions. Two tables.

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POUPA, Vladimir; SMID, Josef

Operational measurement in the automatic telephone network of the Czechoslovak Railroads. Zel dop tech. 11 no.8:247-249 '63.

3(2,4) PHASE I BOOK EXPLOITATION CZECH/2817

Pouba, Zdeněk, Doctor, Docent

Geologické mapování (Geological Mapping) Praha, Nakladatelství Československé Akademie Věd, 1959. 523 p. (Series: Československá Akademie Věd. Sekce geologicko-geografická) Errata slip inserted. 2,250 copies printed.

Scientific Ed.: Radim Kettner; Ed.: Josef Rubin.

PURPOSE: The book is intended for students of geological mapping and for users of geological survey maps in various technical and industrial projects. In addition, the book may serve as a reference guide to consultants and engineers assisting in planning and execution of surveys for surface mapping.

COVERAGE: The book presents the basic principles of topographic and geological mapping. Questions dealing with the interpretation of geological maps and aerial photographs, photogeological methods of surface mapping, and the application of the fundamentals of cartography to geological and related mapping are included. A discussion of the geological maps used by exploration geologists and geophysicists is given. The treatment covers the more important

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aspects of geologic mapping and map interpretation used in civil engineering, mine surveying and mine working, and gives detailed data on the various geological structures associated with industrial minerals and the methods of mapping them. Other subjects treated in the book include: use of aerial photographs as a substitute for topographic maps and as a supplemental aid in geological surveys; the photogeological procedures used in Czechoslovakia; geometric characteristics of geologic maps; survey of the more modern mapping methods in different scales, the history of geological and topographical map making in Czechoslovakia; classification of rocks according to origin and depicting the various types of geologic formations upon a map; and the framework of topographic maps and respective mapping practices. The author thanks Doctor M. Prosová-Sekyrová for elaborating the chapter on Quaternary formation mapping; Engineer V. Myslil for his contributions on borehole logging practices and hydrogeology; Engineer R. Válek for assisting in the preparation of the material on geophysical methods of surveying; Doctor F. Fediuk for the preparation of the material on tectonics; Academician T. Koutek; Q. Záruba, Corresponding Member of the Czechoslovakian Academy of Sciences; Professor V. Blahák; Professor O. Kodyma; Docent K. Kuchař; Docent K. Hromada; and the staff of the Ústřední ústav geologický (Central Geological Institute) in Prague. There are numerous figures and maps, in-

cluding 12 inserts. There are 160 references: 90 Czech, 45 Soviet, and the rest German and English.

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Geological Mapping